

ABSTRACT
MULTIPLE VIEW DISPLAY

A multiple view display comprises a display device such as a liquid crystal
5 device, a parallax optic such as a parallax barrier, and a controller. The device
comprises rows and columns of pixels and the controller supplies image data for a first
view to first ones of the pixels and second ones of the pixels such that the first and
second pixels alternate in the rows and in the columns. The parallax optic comprises
10 rows and columns of parallax elements with the arrangement of pixels and parallax
elements being such that each element co-operates with a respective pair of first and
second pixels adjacent each other in the same row to form first and second viewing
regions. Each row of parallax elements is off-set in the row direction by half the
horizontal barrier pitch. Such an arrangement allows wider angles between the viewing
regions to be achieved.

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